

```

1  atgagcggca gagtcggcga tctgagcccc aggcagaagg aggcattggc caagccagaa
61  gcttcgacct gcagaagtcg gaggccatgc tccggaagca tgtggagtgc cgaaagcaaa
121 aggacattga caacatcatt agcatggcag cctccagagg tgatccaaca gtatctgtca
181 gggggatatgt gtggctatga cctggatggc tgcccagtct ggtacgacat aattggacct
241 ctggatgcc aagggtctgct gttctcagcc tccaaacagg acctgctgag gaccaagatg
301 cgggagtggtg agctgcttct gcaagagtgt gccaccaga ccacaaagtt ggggaggaag
361 gtggagacca tcaccataat ttatgactgc gaggggcttg gcctcaagca tctctggaag
421 cctgctgtgg aggcctatgg agagtttctc tgcattgttg aggaaaatta tcccgaataa
481 ctgaagcgtc tttttgttgt taaagcccc aaactgtttc ctgtggccta taacctcatc
541 aaacccttcc tgagtgagga cactcgtaag aagatcatgg tcctgggagc aaattggaag
601 gaggttttac tgaacatat cagccctgac caggtgcttg tggagtatgg gggcaccatg
661 actgaccctg atggaaaccc caagtgc aaa tccaagatca actacggggg tgacatcccc
721 aggaagtatt atgtgcgaga ccaggtgaaa cagcagtatg aacacagcgt gcagatttcc
781 cgtggctcct cccaccaagt ggagtatgag atcctcttcc ctggctgtgt cctcaggtgg
841 cagtttatgt cagatggagc ggatgttggg tttgggattt tcctgaagac caagatggga
901 gagaggcagc gggcagggga gatgacagag gtgctgcca accagaggta caactcccac
961 ctggtccctg aagatgggac cctcacctgc agtgatcctg gcatttatgt cctgcggttt
1021 gacaacacct acagcttcat tcatgccaag aaggtcaatt tcaactgtgga ggtcctgctt
1081 ccagacaaag cctcagaaga gaagatgaaa cagctggggg caggcacccc gaaataa

```

(SEQ ID NO: 1)

Fig. 1

MSGRVGDLSPRQKEALAKPEASTCRSRRPCSGSMWSSESKRTLTTSLAWQPPEVIQQYL
SGMCGYDLDCGPVWYDIIGPLDAKGLLFSASKQDLLRTKMRECELLLQECAHQTTKLG
RKVETITIIYDCEGLGLKHLWKPAVEAYGEFLCMFEENYPETLKRLFVVKAPKLFPPVAY
NLIKPFLESDTRKKIMVLGANWKEVLLKHISPDQVPVEYGGTMTDPDGNPKCKSKINYG
GDI PRKYVVRDQVKQYEHSVQISRGSSHQVEYEILFPGCVLRWQFMSDGDADVGFIFL
KTKMGERQRAGEMTEVLPNQRYNSHLVPEDGTLTCSDDPGIYVLRFDNTYSFIHAKKVN
TVEVLLPDKASEEKMQLGAGTPK (SEQ ID NO: 2)

Fig. 2

TAP-46 ATGAGCGGCAGAGTCGGCGATCTGAGCCCCAGGCAGAAAGGAGGCATTGGCCAAG
TAP-38 ATGAGCGGCAGAGTCGGCGATCTGAGCCCCAGGCAGAAAGGAGGCATTGGCCAAG

TAP-46 tttcgggagaatgtccaggatgtgctgccggccctgccgaatccagatgactat
TAP-38 -----

TAP-46 tttctcctgcgttggtccgagCCAGAAAGCTTCGACCTGCAGAAAGTCGGAGGCC
TAP-38 -----CCAGAAAGCTTCGACCTGCAGAAAGTCGGAGGCC

TAP-46 ATGCTCCGGGAAGCATGTGGAGTTCCGAAAGCAAAGGACATTGACAACATCATTT
TAP-38 ATGCTCCGGGAAGCATGTGGAGTTCCGAAAGCAAAGGACATTGACAACATCATTT

TAP-46 AGCT-GGCAGCCTCCAGAGGTGATCCAACAGTATCTGTCAAGGGGTATGTGTGG
TAP-38 AGCATGGCAGCCTCCAGAGGTGATCCAACAGTATCTGTCAAGGGGTATGTGTGG

TAP-46 (SEQ ID NO: 3)

Fig. 3

```

TAP-46  MSGRVGDLSPRQKEALAKFRENVDVLPALPNPDDYFLLRWLRARSFDLQKSEAMLRKHV
**      MSGRVGDLSPRQKEALAK                      R R S SE
TAP-38  MSGRVGDLSPRQKEALAKPEAST-----CRSRRPCSGSMWSSES-----

TAP-46  EFRKQKDIDNIIISWQPPEVIQQYLSGGMCGYDLDGCPVWYDIIIGPLDAKGLLFSASKQDL
**      WQPPEVIQQYLSGGMCGYDLDGCPVWYDIIIGPLDAKGLLFSASKQDL
TAP-38  ----KRTLTTSLAWQPPEVIQQYLSGGMCGYDLDGCPVWYDIIIGPLDAKGLLFSASKQDL

** Homology

```

Fig. 4

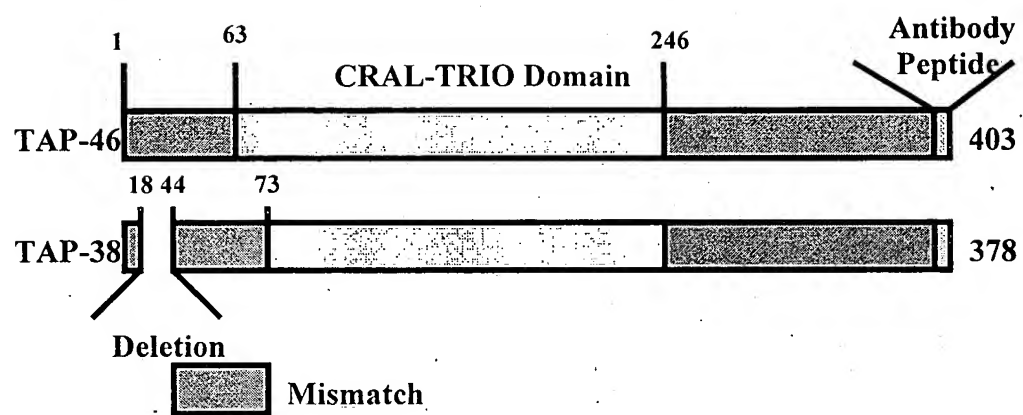


Fig. 5

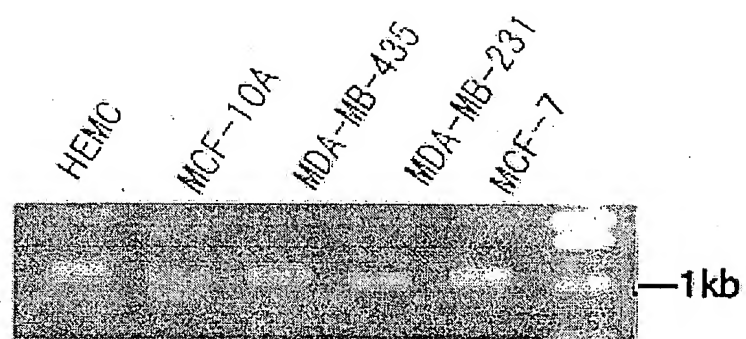


Fig. 6

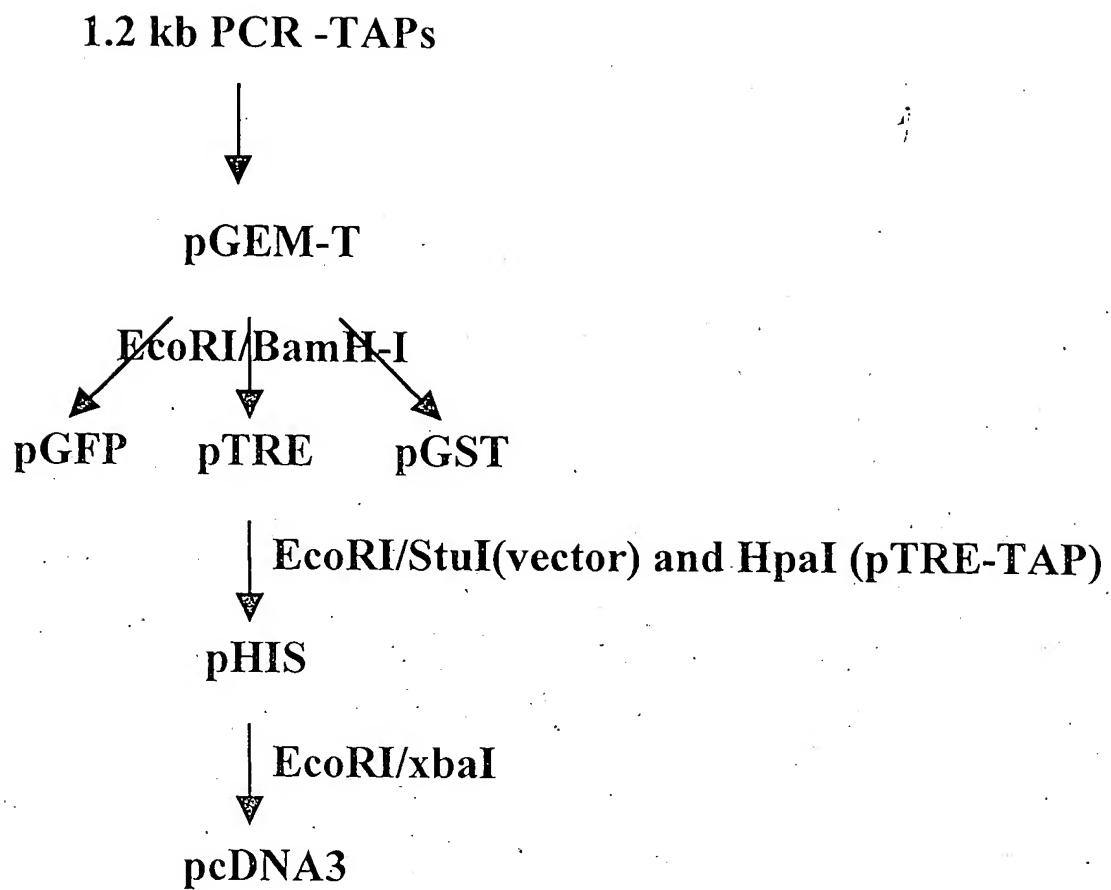


Fig. 7

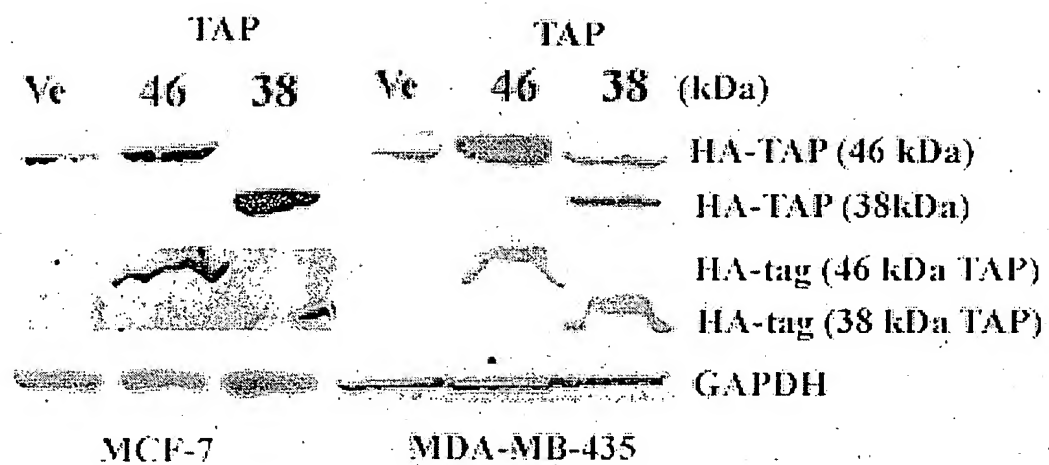


Fig. 8

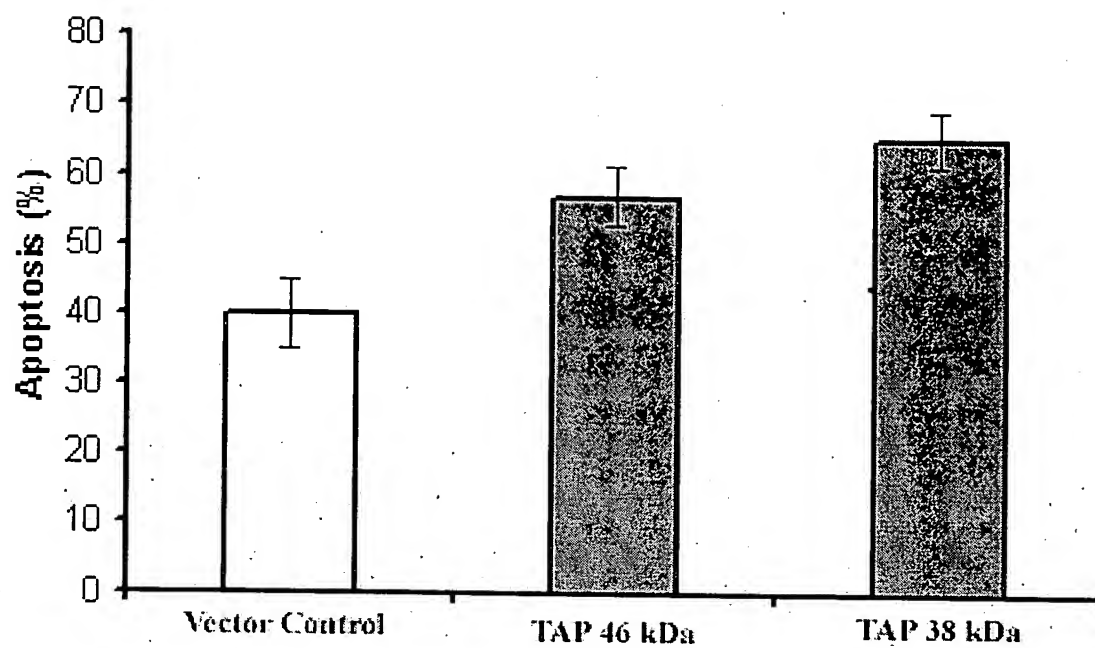


Fig. 9

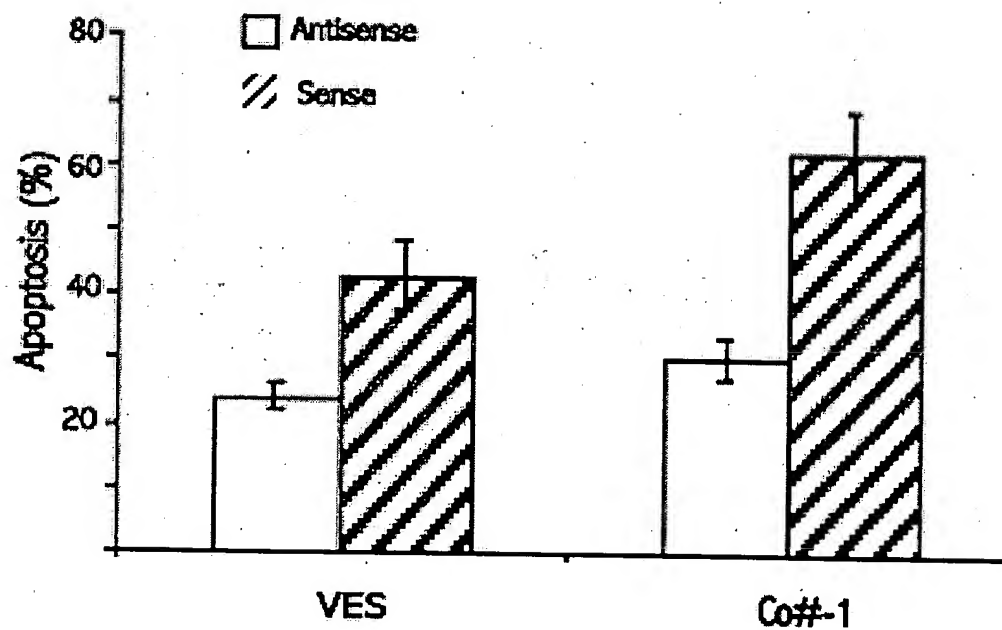


Fig. 10

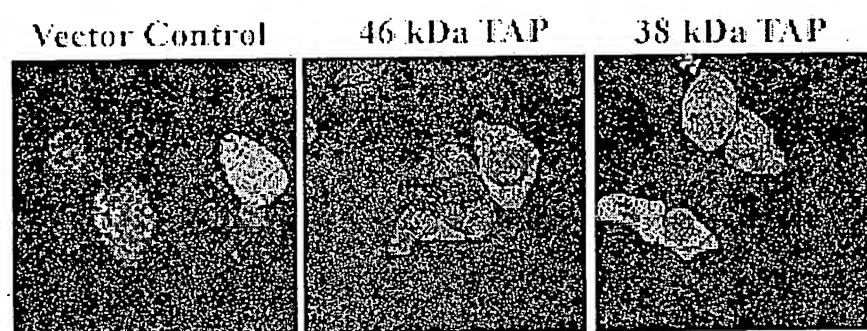


Fig. 11

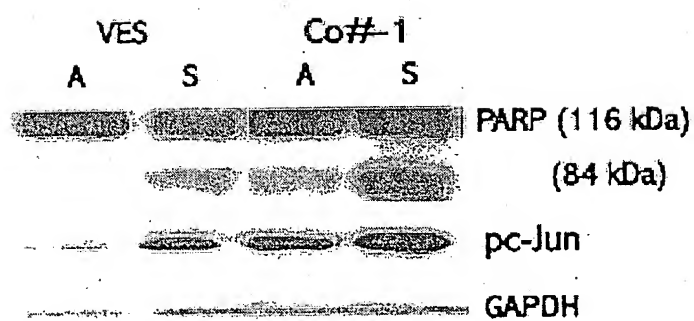


Fig. 12

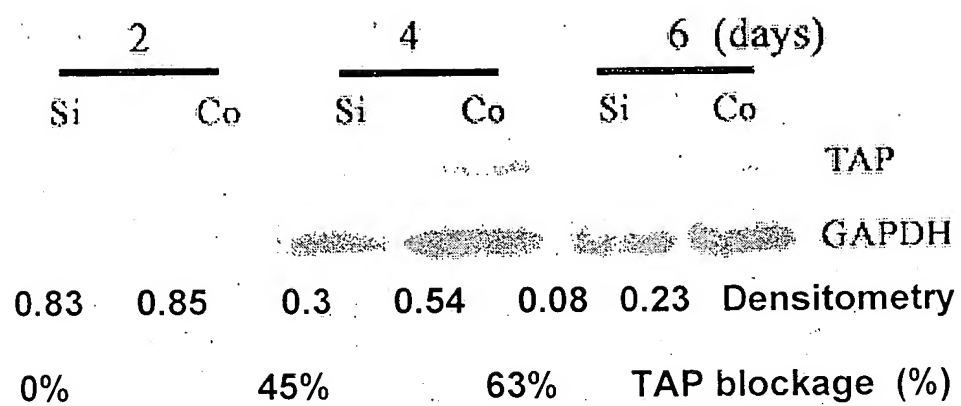


Fig. 13A

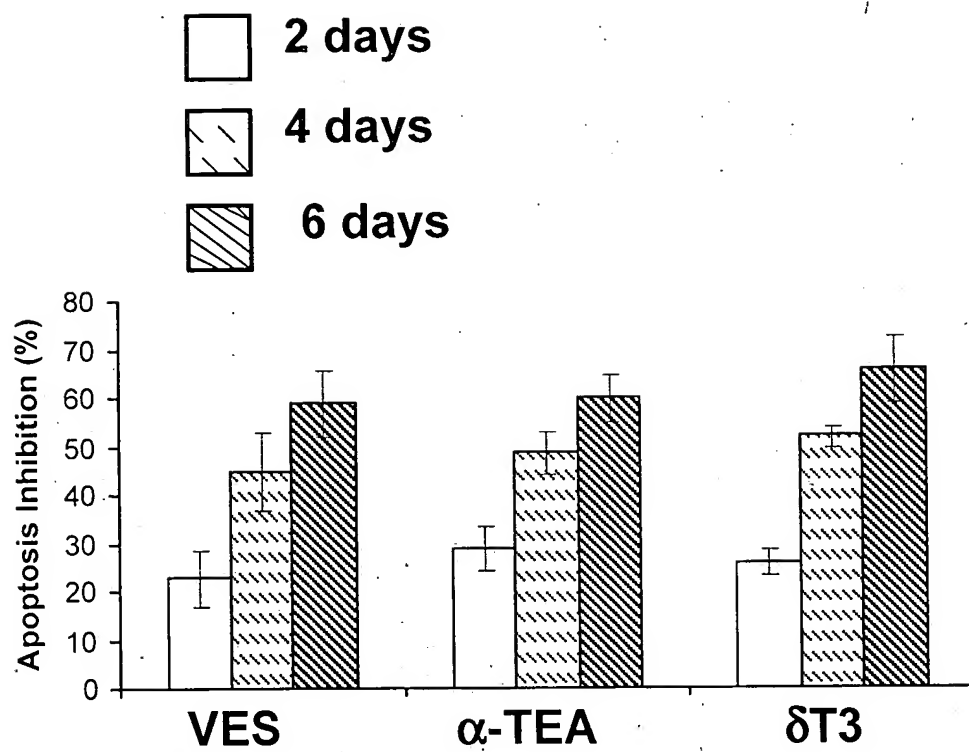


Fig. 13B

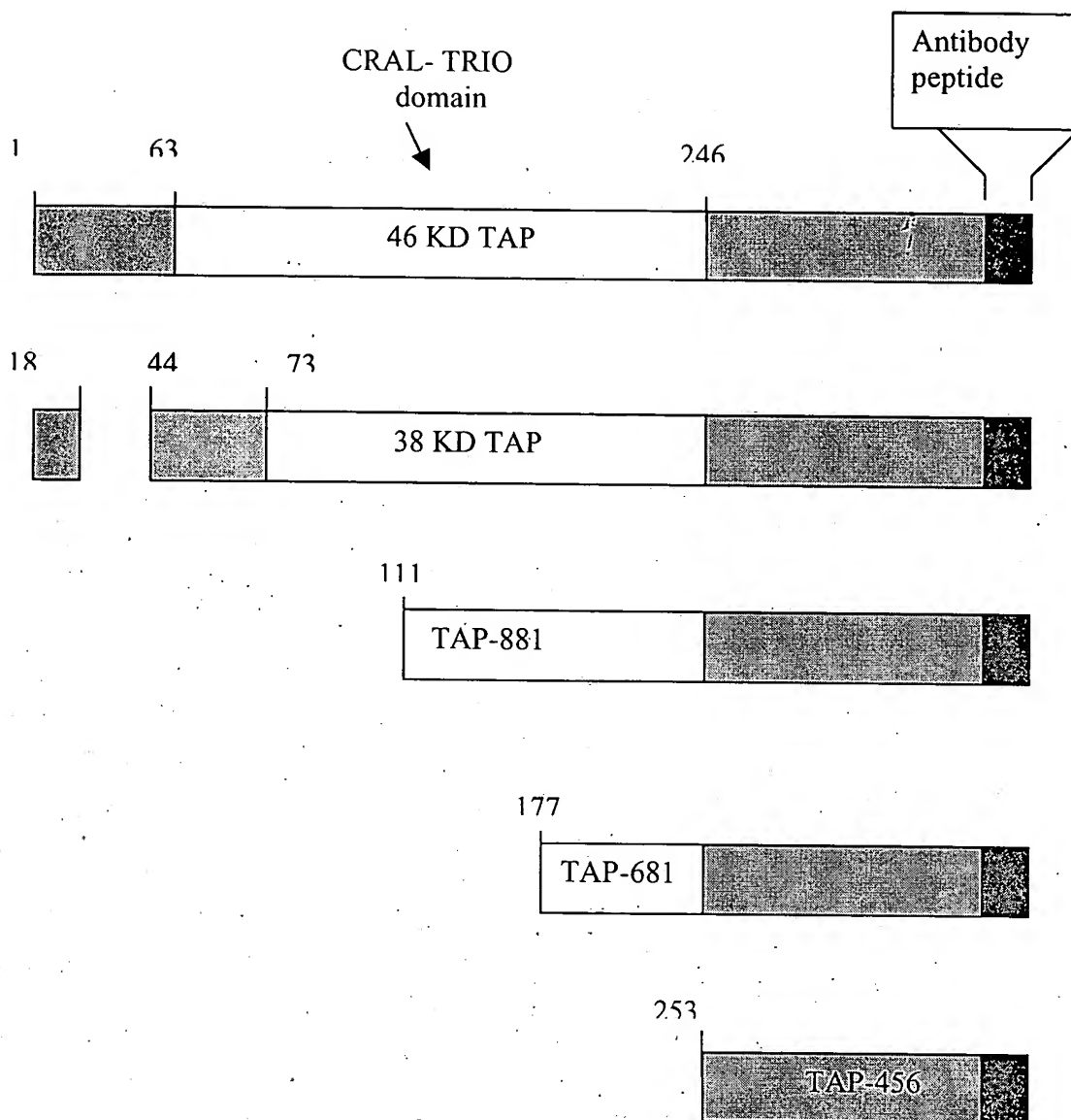


Fig. 14

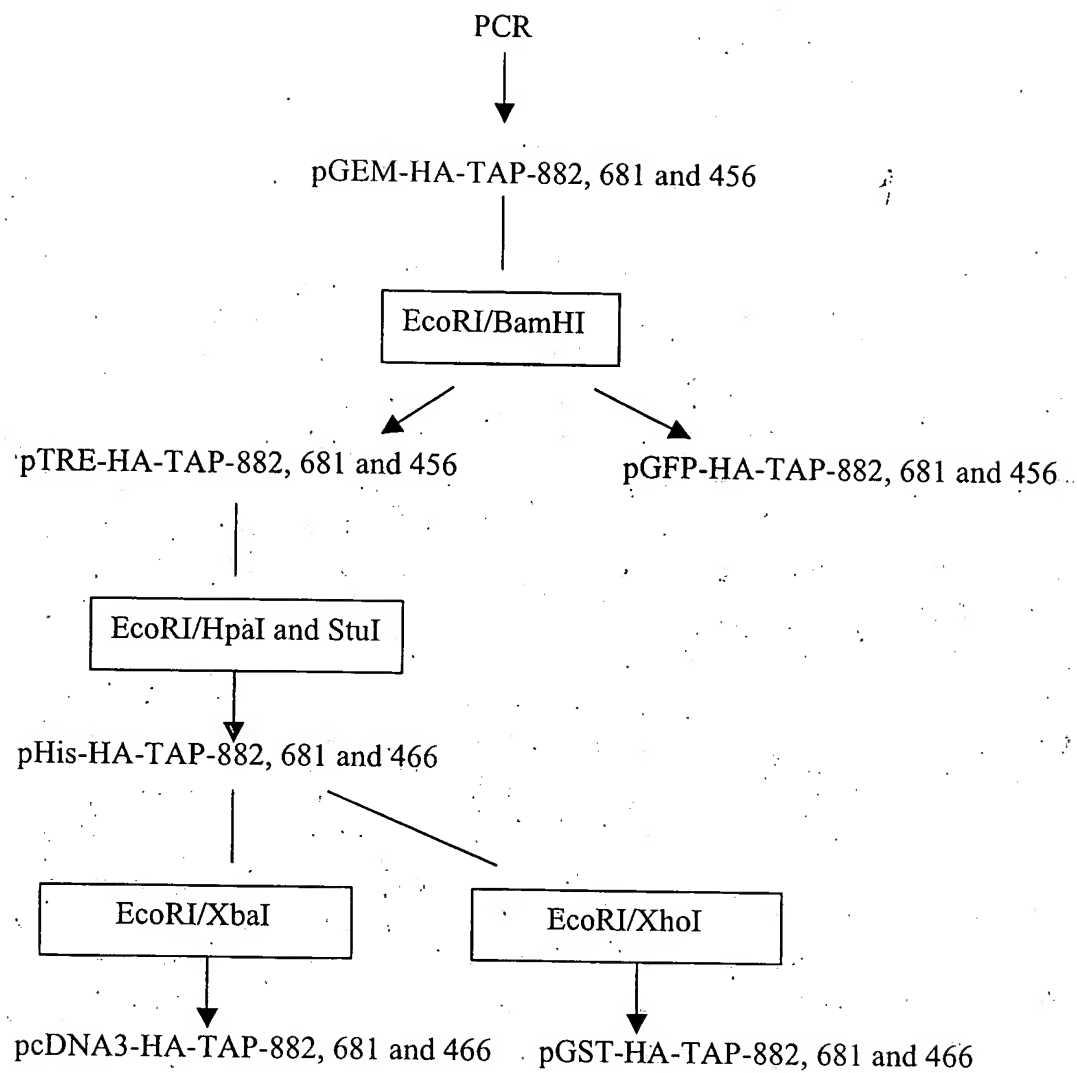
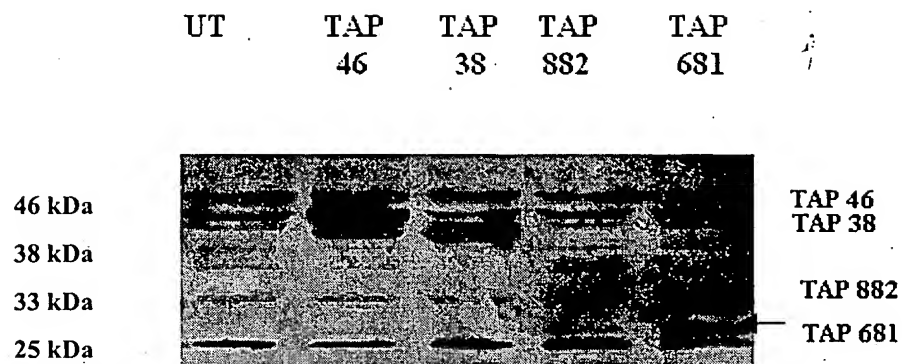


Fig. 15

MDA-MB-435 cells



MCF-7 cells

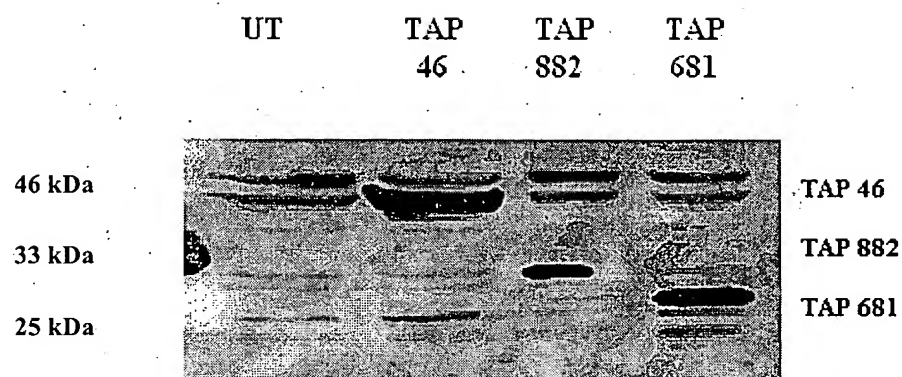


Fig. 16